

110	115	120	125	
ggg gag ctt acc aag gtg agg atg gcc cgc cag aag atg agt gaa atc Gly Glu Leu Thr Lys Val Arg Met Ala Arg Gln Lys Met Ser Glu Ile 130		135	140	434
ttt ccc ttg act gaa gag ctc tgg ctg gag tgg ctg cat gac gag atc Phe Pro Leu Thr Glu Glu Leu Trp Leu Glu Trp Leu His Asp Glu Ile 145		150	155	482
agc atg gcc cag gat ggc ctg gac aga gag cac gtg tat gac ctc ttt Ser Met Ala Gln Asp Gly Leu Asp Arg Glu His Val Tyr Asp Leu Phe 160		165	170	530
gag aaa gcc gtg aag gat tac att tgt cct aac att tgg cta gag tat Glu Lys Ala Val Lys Asp Tyr Ile Cys Pro Asn Ile Trp Leu Glu Tyr 175		180	185	578
ggc cag tac tca gtt ggt ggg att ggt cag aaa ggt ggc ctt gag aaa Gly Gln Tyr Ser Val Gly Ile Gly Gln Lys Gly Leu Glu Lys 190		195	200	626
gtt cgc tcc gtg ttt gaa agg gct ctc tcg tct gtt ggt tta cat atg Val Arg Ser Val Phe Glu Arg Ala Leu Ser Ser Val Gly Leu His Met 210		215	220	674
acc aaa gga ctc gcc ctc tgg gag gct tac cga gag ttt gaa agt gcg Thr Lys Gly Leu Ala Leu Trp Glu Ala Tyr Arg Glu Phe Glu Ser Ala 225		230	235	722
att gtg gaa gct gct cgg ctt gag aaa gtc cac agt ctt ttc cgg cga Ile Val Glu Ala Ala Arg Leu Glu Lys Val His Ser Leu Phe Arg Arg 240		245	250	770
cag ttg gcg atc cca ctc tat gat atg gag gcc aca ttt gca gag tat Gln Leu Ala Ile Pro Leu Tyr Asp Met Glu Ala Thr Phe Ala Glu Tyr 255		260	265	818
gaa gaa tgg tca gaa gac cca ata cca gag tca gta att cag aac tat Glu Glu Trp Ser Glu Asp Pro Ile Pro Glu Ser Val Ile Gln Asn Tyr 270		275	280	866
aac aaa gca cta cag cag ctg gag aaa tat aaa ccc tat gaa gaa gca Asn Lys Ala Leu Gln Gln Leu Glu Lys Tyr Lys Pro Tyr Glu Glu Ala 290		295	300	914
ctg ttg cag gca gag gca cca agg ctg gca gaa tat caa gca tat atc Leu Leu Gln Ala Glu Ala Pro Arg Leu Ala Glu Tyr Gln Ala Tyr Ile 305		310	315	962
gat ttt gag atg aaa att ggc gat cct gct cgc att cag ttg atc ttt Asp Phe Glu Met Lys Ile Gly Asp Pro Ala Arg Ile Gln Leu Ile Phe 320		325	330	1010
gag cgc gcc ctg gtc gag aac tgc ctt gtc cca gac tta tgg atc cgt Glu Arg Ala Leu Val Glu Asn Cys Leu Val Pro Asp Leu Trp Ile Arg 335		340	345	1058

tac agt cag tac cta gat cga caa ctg aaa gta aag gat ttg gtt tta Tyr Ser Gln Tyr Leu Asp Arg Gln Leu Lys Val Lys Asp Leu Val Leu 350 355 360 365	1106
tct gta cat aac cgc gct att aga aac tgc ccc tgg aca gtt gcc tta Ser Val His Asn Arg Ala Ile Arg Asn Cys Pro Trp Thr Val Ala Leu 370 375 380	1154
tgg agt cgg tac ctc ttg gcc atg gag aga cat gga gtt gat cat caa Trp Ser Arg Tyr Leu Leu Ala Met Glu Arg His Gly Val Asp His Gln 385 390 395	1202
gta att tct gta acc ttc gag aaa gct ttg aat gcc ggc ttc atc cag Val Ile Ser Val Thr Phe Glu Lys Ala Leu Asn Ala Gly Phe Ile Gln 400 405 410	1250
gcc act gat tat gtg gag att tgg cag gca tac ctt gat tac ctg agg Ala Thr Asp Tyr Val Glu Ile Trp Gln Ala Tyr Leu Asp Tyr Leu Arg 415 420 425	1298
aga agg gtt gat ttc aaa caa gac tcc agt aaa gag ctg gag gag ttg Arg Arg Val Asp Phe Lys Gln Asp Ser Ser Lys Glu Leu Glu Glu Leu 430 435 440 445	1346
agg gcc gcc ttt act cgt gcc ttg gag tat ctg aag cag gag gtg gaa Arg Ala Ala Phe Thr Arg Ala Leu Glu Tyr Leu Lys Gln Glu Val Glu 450 455 460	1394
gag cgt ttc aat gag agt ggt gat cca agc tgc gtg att atg cag aac Glu Arg Phe Asn Glu Ser Gly Asp Pro Ser Cys Val Ile Met Gln Asn 465 470 475	1442
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cac tgc cgg aag gct ctg cac cgg gcc gtc cag tgc acc agt gac tac His Cys Arg Lys Ala Leu His Arg Ala Val Gln Cys Thr Ser Asp Tyr 530 535 540	1634
cca gag cac gtc tgc gaa gtt tta ctc acc atg gag agg aca gaa ggt Pro Glu His Val Cys Glu Val Leu Leu Thr Met Glu Arg Thr Glu Gly 545 550 555	1682
tct tta gaa gat tgg gat ata gct gtt cag aaa act gaa acc cga tta Ser Leu Glu Asp Trp Asp Ile Ala Val Gln Lys Thr Glu Thr Arg Leu 560 565 570	1730

gct cgt gtc aat gag cag aga atg aag gct gca gag aag gaa gca gcc Ala Arg Val Asn Glu Gln Arg Met Lys Ala Ala Glu Lys Glu Ala Ala 575 580 585	1778
ctt gtg cag caa gaa gaa aag gct gaa caa cgg aaa aga gct cgg Leu Val Gln Gln Glu Glu Lys Ala Glu Gln Arg Lys Arg Ala Arg 590 595 600 605	1826
gct gag aag aaa gcg tta aaa aag aag aaa aag atc aga ggc cca gag Ala Glu Lys Lys Ala Leu Lys Lys Lys Lys Ile Arg Gly Pro Glu 610 615 620	1874
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gct gga gaa aca caa aat gta gaa gta gca gca ggg ccc gct ggg aaa Ala Gly Glu Thr Gln Asn Val Glu Val Ala Ala Gly Pro Ala Gly Lys 655 660 665	2018
tgt gct gcc gta gat gtg gag ccc cct tcg aag cag aag gag aag gca Cys Ala Ala Val Asp Val Glu Pro Pro Ser Lys Gln Lys Glu Lys Ala 670 675 680 685	2066
gcc tcc ctg aag agg gac atg ccc aag gtg ctg cac gac agc agc aag Ala Ser Leu Lys Arg Asp Met Pro Lys Val Leu His Asp Ser Ser Lys 690 695 700	2114
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gac cgg aaa agt gta gaa ggg agg cca atg ttt gtt tcc ccc tgt gtg Asp Arg Lys Ser Val Glu Gly Arg Pro Met Phe Val Ser Pro Cys Val 770 775 780	2354
gat aag agc aaa aac ccc gat ttt aag gtg ttc agg tac agc act tcc Asp Lys Ser Lys Asn Pro Asp Phe Lys Val Phe Arg Tyr Ser Thr Ser 785 790 795	2402
cta gag aaa cac aag ctg ttc atc tca ggc ctg cct ttc tcc tgt act	2450

Leu Glu Lys His Lys Leu Phe Ile Ser Gly Leu Pro Phe Ser Cys Thr			
800	805	810	
aaa gag gaa cta gaa gaa atc tgt aag gct cat ggc acc gtg aag gac		2498	
Lys Glu Glu Leu Glu Ile Cys Lys Ala His Gly Thr Val Lys Asp			
815	820	825	
ctc agg ctg gtc acc aac cgg gct ggc aaa cca aag ggc ctg gcc tac		2546	
Leu Arg Leu Val Thr Asn Arg Ala Gly Lys Pro Lys Gly Leu Ala Tyr			
830	835	840	845
gtg gag tat gaa aat gaa tcc cag gcg tcg cag gct gtg atg aag atg		2594	
Val Glu Tyr Glu Asn Glu Ser Gln Ala Ser Gln Ala Val Met Lys Met			
850	855	860	
gac ggc atg act atc aaa gag aac atc atc aaa gtg gca atc agc aac		2642	
Asp Gly Met Thr Ile Lys Glu Asn Ile Ile Lys Val Ala Ile Ser Asn			
865	870	875	
cct cct cag agg aaa gtt cca gag aag cca gag acc agg aag gca cca		2690	
Pro Pro Gln Arg Lys Val Pro Glu Lys Pro Glu Thr Arg Lys Ala Pro			
880	885	890	
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Gly Gly Pro Met Leu Leu Pro Gln Thr Tyr Gly Ala Arg Gly Lys Gly			
895	900	905	
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Arg Thr Gln Leu Ser Leu Leu Pro Arg Ala Leu Gln Arg Pro Ser Ala			
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gca gct cct cag gct gag aac ggc cct gcc gcg gct cct gca gtt gcc		2834	
Ala Ala Pro Gln Ala Glu Asn Gly Pro Ala Ala Ala Pro Ala Val Ala			
930	935	940	
gcc cca gca gcc acc gag gca ccc aag atg tcc aat gcc gat ttt gcc		2882	
Ala Pro Ala Ala Thr Glu Ala Pro Lys Met Ser Asn Ala Asp Phe Ala			
945	950	955	
aag ctg ttt ctg aga aag tgaacgggac gctggagac aggaaatgcc		2930	
Lys Leu Phe Leu Arg Lys			
960			
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35 40 45

Lys Thr Met Gly Pro Ala Trp Asp Gln Gln Glu Glu Gly Val Ser Glu
50 55 60

Ser Asp Gly Asp Glu Tyr Ala Met Ala Ser Ser Ala Glu Ser Ser Pro
65 70 75 80

Gly Glu Tyr Glu Trp Glu Tyr Asp Glu Glu Glu Glu Lys Asn Gln Leu
85 90 95

Glu Ile Glu Arg Leu Glu Glu Gln Leu Ser Ile Asn Val Tyr Asp Tyr
100 105 110

Asn Cys His Val Asp Leu Ile Arg Leu Leu Arg Leu Glu Gly Glu Leu
115 120 125

Thr Lys Val Arg Met Ala Arg Gln Lys Met Ser Glu Ile Phe Pro Leu

130 135 140

Thr Glu Glu Leu Trp Leu Glu Trp Leu His Asp Glu Ile Ser Met Ala
145 150 155 160

Gln Asp Gly Leu Asp Arg Glu His Val Tyr Asp Leu Phe Glu Lys Ala
165 170 175

Val Lys Asp Tyr Ile Cys Pro Asn Ile Trp Leu Glu Tyr Gly Gln Tyr
180 185 190

Ser Val Gly Gly Ile Gly Gln Lys Gly Gly Leu Glu Lys Val Arg Ser
195 200 205

Val Phe Glu Arg Ala Leu Ser Ser Val Gly Leu His Met Thr Lys Gly
210 215 220

Leu Ala Leu Trp Glu Ala Tyr Arg Glu Phe Glu Ser Ala Ile Val Glu
225 230 235 240

Ala Ala Arg Leu Glu Lys Val His Ser Leu Phe Arg Arg Gln Leu Ala
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Ile Pro Leu Tyr Asp Met Glu Ala Thr Phe Ala Glu Tyr Glu Glu Trp
260 265 270

Ser Glu Asp Pro Ile Pro Glu Ser Val Ile Gln Asn Tyr Asn Lys Ala
275 280 285

Leu Gln Gln Leu Glu Lys Tyr Lys Pro Tyr Glu Glu Ala Leu Leu Gln
290 295 300

Ala Glu Ala Pro Arg Leu Ala Glu Tyr Gln Ala Tyr Ile Asp Phe Glu
305 310 315 320

Met Lys Ile Gly Asp Pro Ala Arg Ile Gln Leu Ile Phe Glu Arg Ala
325 330 335

Leu Val Glu Asn Cys Leu Val Pro Asp Leu Trp Ile Arg Tyr Ser Gln
340 345 350

Tyr Leu Asp Arg Gln Leu Lys Val Lys Asp Leu Val Leu Ser Val His
355 360 365

Asn Arg Ala Ile Arg Asn Cys Pro Trp Thr Val Ala Leu Trp Ser Arg
370 375 380

Tyr Leu Leu Ala Met Glu Arg His Gly Val Asp His Gln Val Ile Ser
385 390 395 400

Val Thr Phe Glu Lys Ala Leu Asn Ala Gly Phe Ile Gln Ala Thr Asp
405 410 415

Tyr Val Glu Ile Trp Gln Ala Tyr Leu Asp Tyr Leu Arg Arg Arg Val
420 425 430

Asp Phe Lys Gln Asp Ser Ser Lys Glu Leu Glu Glu Leu Arg Ala Ala
435 440 445

Phe Thr Arg Ala Leu Glu Tyr Leu Lys Gln Glu Val Glu Glu Arg Phe
450 455 460

Asn Glu Ser Gly Asp Pro Ser Cys Val Ile Met Gln Asn Trp Ala Arg
465 470 475 480

Ile Glu Ala Arg Leu Cys Asn Asn Met Gln Lys Ala Arg Glu Leu Trp
485 490 495

Asp Ser Ile Met Thr Arg Gly Asn Ala Lys Tyr Ala Asn Met Trp Leu
500 505 510

Glu Tyr Tyr Asn Leu Glu Arg Ala His Gly Asp Thr Gln His Cys Arg
515 520 525

Lys Ala Leu His Arg Ala Val Gln Cys Thr Ser Asp Tyr Pro Glu His
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Val Cys Glu Val Leu Leu Thr Met Glu Arg Thr Glu Gly Ser Leu Glu
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Asp Trp Asp Ile Ala Val Gln Lys Thr Glu Thr Arg Leu Ala Arg Val
565 570 575

Asn Glu Gln Arg Met Lys Ala Ala Glu Lys Glu Ala Ala Leu Val Gln
580 585 590

Gln Glu Glu Glu Lys Ala Glu Gln Arg Lys Arg Ala Arg Ala Glu Lys
595 600 605

Lys Ala Leu Lys Lys Lys Lys Ile Arg Gly Pro Glu Lys Arg Gly
610 615 620

Ala Asp Glu Asp Asp Glu Lys Glu Trp Gly Asp Asp Glu Glu Glu Gln
625 630 635 640

Pro Ser Lys Arg Arg Val Glu Asn Ser Ile Pro Ala Ala Gly Glu
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Thr Gln Asn Val Glu Val Ala Ala Gly Pro Ala Gly Lys Cys Ala Ala
660 665 670

Val Asp Val Glu Pro Pro Ser Lys Gln Lys Glu Lys Ala Ala Ser Leu
675 680 685

Lys Arg Asp Met Pro Lys Val Leu His Asp Ser Ser Lys Asp Ser Ile
690 695 700

Thr Val Phe Val Ser Asn Leu Pro Tyr Ser Met Gln Glu Pro Asp Thr
705 710 715 720

Lys Leu Arg Pro Leu Phe Glu Ala Cys Gly Glu Val Val Gln Ile Arg
725 730 735

Pro Ile Phe Ser Asn Arg Gly Asp Phe Arg Gly Tyr Cys Tyr Val Glu
740 745 750

Phe Lys Glu Glu Lys Ser Ala Leu Gln Ala Leu Glu Met Asp Arg Lys
755 760 765

Ser Val Glu Gly Arg Pro Met Phe Val Ser Pro Cys Val Asp Lys Ser
770 775 780

Lys Asn Pro Asp Phe Lys Val Phe Arg Tyr Ser Thr Ser Leu Glu Lys
785 790 795 800

His Lys Leu Phe Ile Ser Gly Leu Pro Phe Ser Cys Thr Lys Glu Glu
805 810 815

Leu Glu Glu Ile Cys Lys Ala His Gly Thr Val Lys Asp Leu Arg Leu
820 825 830

Val Thr Asn Arg Ala Gly Lys Pro Lys Gly Leu Ala Tyr Val Glu Tyr
835 840 845

Glu Asn Glu Ser Gln Ala Ser Gln Ala Val Met Lys Met Asp Gly Met
850 855 860

Thr Ile Lys Glu Asn Ile Ile Lys Val Ala Ile Ser Asn Pro Pro Gln
865 870 875 880

Arg Lys Val Pro Glu Lys Pro Glu Thr Arg Lys Ala Pro Gly Gly Pro
885 890 895

Met Leu Leu Pro Gln Thr Tyr Gly Ala Arg Gly Lys Gly Arg Thr Gln
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Leu Ser Leu Leu Pro Arg Ala Leu Gln Arg Pro Ser Ala Ala Ala Pro
915 920 925

Gln Ala Glu Asn Gly Pro Ala Ala Ala Pro Ala Val Ala Ala Pro Ala
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<400> 53

Val Xaa Asp Tyr Asn Cys His Val Asp Xaa
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<400> 54

Leu Xaa Glu Lys Ala Val Lys Asp Tyr Xaa
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Asn Xaa Asn Lys Ala Leu Gln Gln Xaa
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<210> 56
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<400> 56

Ala Xaa Ile Asp Phe Glu Met Lys Xaa
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<210> 57
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<400> 57

Asp Xaa Val Glu Ile Trp Gln Ala Tyr Xaa
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<210> 58
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<220>
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<400> 58

Asp Xaa Leu Arg Arg Arg Val Asp Xaa
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<210> 59
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<400> 59

Ala Xaa Thr Arg Ala Leu Glu Tyr Xaa
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<400> 60

Trp Xaa His Asp Glu Ile Ser Met Xaa
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<210> 61
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<210> 63
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1 5